LITTLE DRY FORK WBID 1863

Recreational Use Attainability Analysis

May 2007

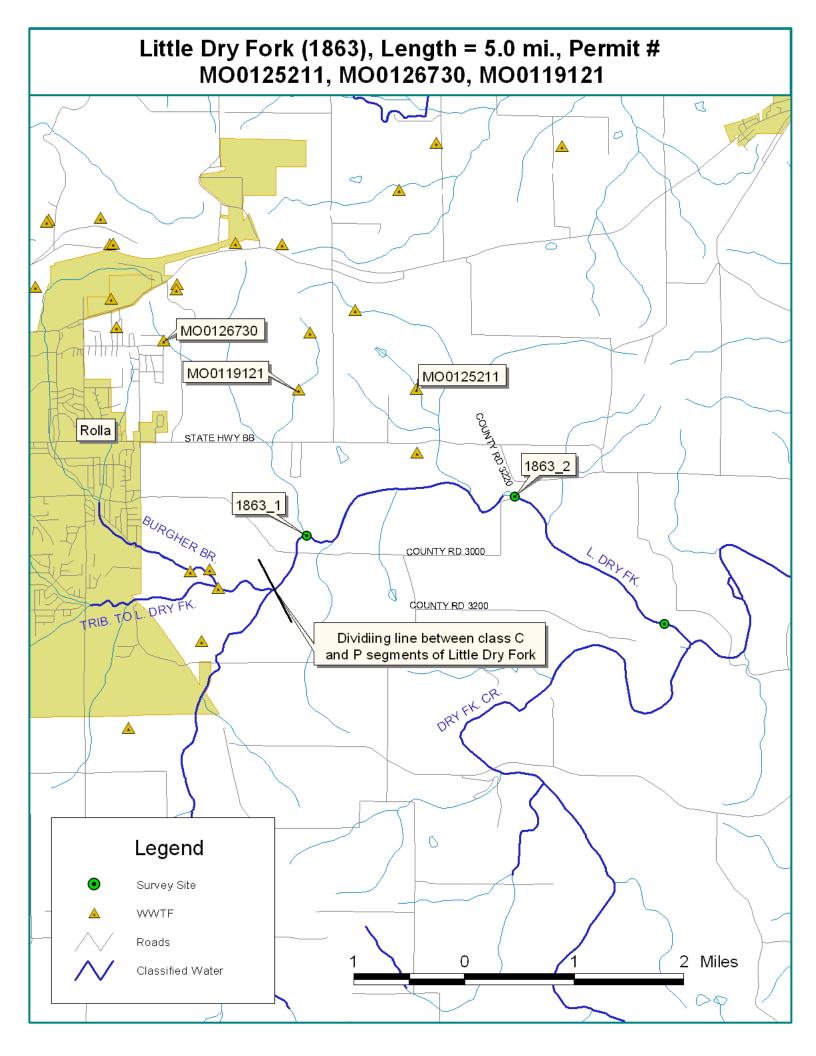
PREPARED FOR:
RFP No: B3Z07134
Water Quality Monitoring & Assessment Section
Water Protection Program
Division of Environmental Quality
MISSOURI DEPARTMENT OF NATURAL RESOURCES
301 West High Street
Jefferson City, MO 65102

PREPARED BY:
MEC WATER RESOURCES, INC.
1123 Wilkes Blvd., Ste. 400
Columbia, MO 65201

Data Sheet A - Water Body Identification

I. Water Body Information (Feb.	or water body being survey	ed)	
Water Body Name (from US		e Dry Fork	
Missouri Water Body Identif			
8-digit HUC: 07/46	0/02	County: Phelps	
Upstream Legal Description	(from Table H):	8,37N,7W	
Downstream Legal Descripti	on(from Table H):	Mouth	
Number of sites evaluated	3		
List all sites numbers, listed	cnsequantly upstream to	downstream:	
Site 1, Site 2			
II. Subsegmentation (fill this s	ection out only in cases	where subsegmentation is being proposed)	
Upstream Coordinates:	TRANSVERSE MERCATOR PROJEC	Downstream Coordinates:	
ÛTM X	Y	UTM X Y	
HORIZONTAL COLLECTION METHOD (In			
Global Positioning	System (GPS)	Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			
HORIZONTAL ACCURACY ESTIMATE			
GPS Data		Interpolation Data Quality	
FOM ±	Meters	Source Map Scale: 1:24,000 1:100,000 O	ther
	eet or ±Meters		
PDOP		±Feet or ±Meters	3
III. Discharger Facility Inform		schargers on the stream)	
Discharger Facility Name(s)	· 1 200 , ca#2 0 11	11 11 De Or rath D. C.11	
Discharger Permit Number(s	at, 9CPWSDID Colleg	eH. Us, PCPWSD#2 Pines Subd	
	·)·		
IV. UAA Surveyor (please print	legibly)	19121	
Name of Surveyor xlick	Twenks	Telephone Number: 573 - 443 - 4160	
Organization/Employer: ///	El Water Resource	es	
Position: Water Quality	Scientist	9	
(
Please verify that you have con	npleted all sections, che	cked all applicable boxes and that everythin	g is
complete.		Date: 5/16/07	
Signed: Mcc VIIII		Date: 9/16/01	
P	Jac 5-2	4-01	
	In chiclo		
February 16, 2007	10000/00/01	Page	1

Page 1



WBID#_	1863
Site#	

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 5/15/0	7	S	Site Location Des	cription (e.g., road crossing):	ditade archesty
Personnel (Data Collectors)	: NickM. Jes	rod R.		•	•
Current Weather Conditions	s: Cloudy/Smr	ns Wearby F	Facility Name: //	PWSD #2 - Greenless To	reat College H.7/5 Pine
Weather Conditions for Pas	t 10 days:			100000	100 7 1110 011 1121
Drought Conditions?: No d	rought ∰; Phase I □;	Phase II □; Pha	ase III □; Phase	IV □; Unknown □	
e Locations:					
LOCATION COORDINATES (U					
Site GPS Coordinates: U			Y: 41	99 798	
HORIZONTAL COLLECTION I Global	METHOD (Indicate the met Positioning System (GI		ne the locational data	ı.) Interpola	tion
Static Mode				phic Map or DRG	non
Dynamic Mode (Kinematic) Precise Positioning Service				notograph or DOQQ	
Signal Averaging				Imagery ation Other	
Real Time Differential Proce	essing		merpois		
HORIZONTAL ACCURACY					
	GPS Data Quality		White State of the	Interpolation Da	ata Quality
FOM ±	Meters		Source	Map Scale: 1:24,000 1:100	000 Other
EPE ± d	22.6 Feet or ±	Meters			
PDOP				±Feet or ±	Meters
otos: Photo ID#	Photo Purpose and Di	vaction .	Dhata ID#		
(WBID_Site###) (863-1-684 Dwnstri	(upstream, downstream, of	her)	Photo ID# (WBID_Site#_##)	(upstream, c	ose and Direction downstream, other)
1863-1-685 Dwastri 1863-1-686 Upstrm	n from 71 from TI			Upstrm from TI	
es Observed*: (Uses	actually observed	at time of sur	rvey.)		
☐ Swimming	☐ Skin diving	□ scub.	A diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boatin	g	☐ Wading	☐ Rafting
☐ Hunting	□ Trapping	☐ Fishing	g	None of the above	☐ Other:
Describe: (Include number <i>Use Interview</i> when conduction	of individuals recreating interviews.)	ng, photo-documen	ntation of evidenc	e of recreational uses, etc. U	ise Data Sheet D- Recreation
rrounding Condition	15*: (Mark all that prom	ote or impede recrea	ational uses. Attach	photos of evidence or unusual it	ems of interest.)
☐ City/county parks	☐ Playgrounds	☐ MDC conserv		☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National fore	ests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☐ Steep slopes		None of the above	☐ Other:
Comments: A Site is accessible only	s downstrm of through privat	' Cuty Rd 30 le propesty	000 evossing	(west crossing) rea	ach segment

WBID#	1863
Site#	1

Data Sheet B - Site Characterization

			(mu	ust be c	comple	ted for each	site)					
dications of	Human Use*:	(attach	photos)									
☐ Roads	☐ Rope swings	s 🗆 F	oot paths/p	orints	□ Doo	ck/platform	□Li	vestock W	atering	□RV	//ATV	Tracks
☐ Camping S	ites	□ Fi	ire pit/ring		□ NPI	DES Discharge		ishing Tac		☐ Other:		
Comments:						C	1	g 140	N.O.		ici.	
eam Morph	ology:											
-	iew's Physical I	Descripti	ions: Is t	here an	ıy wate	er present at t	his vie	w? 🏿 Y	es □	No		
~ .			If s	o, is th	ere an	obvious curr	ent?	ΣY	es 🗆	No		
Select one of Channel Featu	the following c			C	\		341					
	re Transec	Ct (#)	Distance access		90 Wi	dth (m)	Length	(m)	Median De	epth (m)	Max.	Depth (m
RIFFLE					30)						
RUN					de							
POOL					50							
			Hassina	Should street		Jane						
Downstream	View's Physica	al Descri	ptions:	Is there	any w	ater present	at this v	view? □	Yes	□ No)	
			11	f so, is	there a	n obvious cu	rrent?		Yes 1	□ No		
select one of	the following c	hannel f	eatures:						100	_ 110		
Channel Featur RIFFLE	re Distance f	from access	s (m)	Width ((m)	Length (1	m)	Mediar	n Depth (r	n)	Max. I	Depth (n
RUN												
POOL												
	cation*: (Note an	- 6	vegetation	on or al			% Silt		% Mud/C	lay	70	% Bec
	teristics*: (Mar			us a	egue	,						
ODOR:			Sewage	☐ Mu	ıskv [☐ Chemical	П	None	☐ Other			
COLOR:			Clear	☐ Gr		☐ Gray				•		
BOTTOM DEI	POSIT:		Sludge			_			Other:	-		
WATER SURI	FACE DEPOSITION				,	☐ Fine sedimer☐ Foam			Other			
nmente: Di	ease attach any						<u> </u>	None	☐ Other	:		
onto. I I	ease attach any a	iddillolla)	commer	iis to th	iis torn	n.						
s information	is not to be used s	solely for i	removal o	f a recre	eational	use designation	on but ra	ather is to	provide	a more	e	
prenensive un	derstanding of war	ter conditi	ions. Con	sequent	lv. this	information is	not inte	ended to	lirontly is	nfluone		
	ereation use analys											
evor's Sions	ature: Mick	Visen	_	10, 0110	oned a	Detector	C	and tha	5/07	ning i	s com	plete.
anization: N	EC Water	Reso	urces	- 1	Position	Date of	Survey	: <u> 3//</u>	o which	-		-
February	ature: Mick / NEC Water 16, 2007	Ruc	5	2	4~6	77	Coall	4 301	-VW31			
•	2		A	k.	5/2.	5/07						
*			0 10			· ·						

MEC Recreational Use Attainability Analysis Field Survey Sheet

					,													Disso	olved C	xvaen		
	Watert	oody ID:	186	3	_	Site #:		ex	_							Date:	5/1	5/07		Dynama and a reasonable	114	5
	(WBID_Site#) Estimated Channel Incision: 6,15 (m) (height between low bank width and water) Dissolved Oxygen: 8,63 (mg/L)																					
			•	at transe	ect 1):	UTM Y:	4199	7798	,							l						
					<u>≮</u> istimate					2.6	(feet)					Dis	solved (Oxygen:	_//	<u> </u>	(% sat)	1
	Avoros		m Widtl		15							•	30	\circ			Specifi	c Cond:	79	7.0	(µS/cm)
	_		,	7	<u> </u>	/		meters)	· /00						meters)		r Temp	erature:	2L	4	(°C)	
	Field	d Staff:	Nici	KIVI	lueni	25	Jen	<u>rod</u>	Robe	erts								oracaro.		-1	.(0)	
					100	20.00				Trans	sect Cr	oss-Se	ection	7 (II) W	reservation in							
	0 Distance	1	Distance)2	Distance	3	Distance	4		5		6		7	_	8		9		0		1
Measurement	(m)	Depth (m)	1	Depth (m)		Depth (m)	I	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	2.60	0.10	0,00	0.17	0.20	0.10	0,20	0,10	0.30	0.10	0.30	0.13	0,50	0.10	0110	0.10	0,00	0,20	2.40	0.11	1.30	0.12
2	2.95	K0.10	0.65	0.15	1,50	0.15	1.70	0.40	2.30	0.30	1.90	0.60	1,20	6.11	1.08	0.19	0.92	0.40	3.13	1.19	2.25	0.33
					2.80																	
				(4.10																	
					5,40																	
					6.70																	
					8.00																	
					9.30																	
					10.60																	
					11.90	3					I	- 1		1								
11	11.50	6,10	6.50	0,/0	13.20	0,13	15.2	0.11	ત્રે0.30	0,10	16.30	0.11	7.50	0.10	9,90	0.13	9.20	0.15	9,70	0110	10.80	0.11
12 eature Type (riffle	12.10	0	12.00	O	18.70	٥	15.5	G	21.40	0	16.40	0	10.00	0	10.50	0	12.70	0	10.50	o d	11.20	0
run, or pool)	√ U		Y U \		escending b	fle	Poc		pot)/	100	/	rift	fle	rui	7	riff	le	Poo	1	poo	/

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: Nille Muen Date: 5/15/07

Anc 5-24-07 Anstrology

WBID#_	186	3
Site#	2	

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time:	5/16/07	645					ription (e.g., road cross		Lee		
Personnel (Data	Collectors):	NickM. Jero	rod R.] }	enst	rn of	Cuty Rd 3000	CVOSS1	ny		
Current Weather	r Conditions	Class		Facility Name: PLANSO #2 - Greenler Treat, College Hills, fires Sub Permit Number: MO 0125211, MO 0126730, MO 019121							
Weather Condit				P	ermit N	umber: N	10 0125211, MO 01	26730	, MO 0119121		
			····								
Drought Conditi	ons?: No dr	ought ☑; Phase I □;	Phase II	; Pha	se III 🗆]; Phase]	[V □; Unknown □				
te Locations											
		IIVERSAL TRANSVERSE		PROJ	ECTION	, IN METER	S)				
		ГМ X: 06/63C					00370				
HORIZONTAL CO		ETHOD (Indicate the metl Positioning System (GF		termine	e the loca	ational data.					
Static Mode	Giobai i	ositioning System (Gr	-3)	I X		Topogran	ohic Map or DRG	rpolation			
Dynamic Mode ((Kinematic)						otograph or DOQQ				
Precise Position	ing Service					Satellite	lmagery				
Signal Averaging	9					Interpola	tion Other				
Real Time Differ											
HORIZONTAL A											
		GPS Data Quality					Interpolation	on Data	Quality		
FOM	±	Meters				Source	Map Scale: 1:24,000	1:100,00	0 Other		
EPE	5.5 Feet or ±				±Feet	or ±	Meters				
PDOP											
notos:											
Photo ID#		Photo Purpose and Di	rection		1	to ID#			and Direction		
1863-2-688	Cuty Rd .	(upstream, downstream, ot	givaffiti	***************************************	1862)_Site#_##) -d_693	Unsham view at to	ansect	astream, other)		
1863-2-689	Foot path	along strm Nor on gravel bar up	th of rd	. /	1863-	2-694	rafts and tubes	on be	ink near transect 7		
1863-2-690	tive tracks	s on gravel bar up	spm & R	Lel .	1863-	2-695	Dunston view of Fact prints on grav	TT Walkan	save townsect 9		
1863-2-691	Dwistran	from rd crossing	P		1863-	2-700	Fact prints on grow	C E E	on bank near transect		
1863-2-692	Upstra v.	iew at transect	7		1						
ses Observe	d*: (Uses :	actually observed	at time o	f sur			shirt and alumning 705 foot prints		on bank near transect		
☐ Swimming		☐ Skin diving	□ s				☐ Tubing		☐ Water skiing		
						<u> </u>					
☐ Wind surfin	g	☐ Kayaking		Soating		···	Wading		Rafting		
☐ Hunting	- 11	Trapping		ishing		~	None of the above		☐ Other:		
Describe: (incli	ide number (when conduc	of individuals recreating interviews.)	ig, photo-do	cumen	itation o	of evidence	e of recreational uses, e	tc. Use	Data Sheet D- Recreational		
Ose Interview V	viicii conduc	ing interviews.)									
urrounding C	ondition	S*: (Mark all that prom	ote or impede	recrea	tional us	ses. Attach	photos of evidence or unus	sual items	s of interest.)		
☐ City/county		☐ Playgrounds	☐ MDC co				☐ Urban areas		☐ Campgrounds		
☐ Boating acc	esses	☐ State parks	☐ Nationa	al fore	sts		☐ Nature trails		☐ Stairs/walkway		
☐ No trespass		☐ Fence	☐ Steep s				None of the above	/e	Other:		
	-6-		5.50p 5.	L'			172 110110 01 1110 4000		La Cuiot.		
_											
Comments:											

WBID#	1863
Site#	.2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

☐ Roads	☐ Rope swings	X Foot paths/prints	□ Do	ck/platform	□ Lives	stock Watering	□RV	/ ATV Tracks
☐ Camping Si	tes	☐ Fire pit/ring	□ NP	DES Discharge	☐ Fishi	ing Tackle)X Oth	
		tubes on bank		22021011111130	1 - 115111	ing ruckie	A our	01.
		7 0 00 0 00 000 000						
eam Morph	-							
Upstream Vi	iew's Physical De	scriptions: Is ther	e any wat	er present at tl	nis view?	Yes [] No	
			s there an	obvious curre	ent?	✓ Yes □	No	
Select one of Channel Featur	the following cha		1 1 1	111 ()	T 4 /) M !		
	re Transect (#) Distance from access (m)	1	idth (m) Sesament	Length (m) Median D	Depth (m)	Max. Depth (m)
RIFFLE			30		290			
RUN			20					
POOL			45	ane				
Downstream	View's Physical	Descriptions: Is t	nere any v	vater present	at this vie	ew? □ Yes	□ No	
			, is there	an obvious cu	rrent?	□ Yes	□ No	
Select one of Channel Featu	the following cha		idth (m)	Length (Madian Dauth	()	M D d ()
RIFFLE	Distance no	III access (III)	idii (iii)	Lengin	III)	Median Depth	(m)	Max. Depth (m)
RUN								
POOL								
hetrato*: (7	These values shoul	d add up to 100%.)			•			
1		% Gravel 5	% Sand	0	% Silt	5 % Mud	/Clay	O % Bedro
wetie Verei							, oraș	O 70 Dear
ualic vege	tation": (Note am	ount of vegetation	or algal g	rowth at the as	ssessmen	t site.)		
80% of	substrate wi	the algae in v	pstrun p	not of site	, 20%	in the last	1 has	4
	teristics*: (Mark	-		0		,		
ODOR:	TOTION TOTAL		Musky	☐ Chemical	П	None	art	
COLOR:			Green	☐ Gray			run of	+ influence,
BOTTOM DE	POSIT:							previous days
	FACE DEPOSITION:		Solids	☐ Fine sedime		None		
WAILKSOK	TACE DELOSITION.	□ Oil □	Scum	☐ Foam	1 12	None	ier:	
mments: P	lease attach any ad	ditional comments	to this fo	rm.				
his information	is not to be used so	laly for ramaval of a		.1	1			
nprehensive ur	nderstanding of wate	lely for removal of a er conditions. Consect s but may point to co	quently, th	s information i	s not inter	ided to directly	influen	ce a
ease verify th	at you have com	pleted all sections,	checked	all applicable	e boxes a	nd that ever	vthing	is complete.
rveyor's Sign	ature: Nik A	Liene Kesources and 5		Date of	Survey:	5/16/07		
ganization: N	LEC Water	Lesources	Positi	on: Water	Qualit	y Scient	3+	 -
,		Ob-t =	- 7u.	07 12	21/2 -	1-1		
February	16, 2007	0	-1	POSI	/CJ/	23/17		

MEC Recreational Use Attainability Analysis Field Survey Sheet

			101	·)			^												lved C			
			186.		-	Site #:	$\frac{2}{\sqrt{2}}$	0'' - "	-							Date:	5/10	2/07	_	Time:	645	*
	Estimated Channel Incision: (WBID_Site#) GPS Location (taken at transect 1): (WBID_Site#) Dissolved Oxygen: 5.53 (mg/L)																					
		UTM X:	06 16 ntal Acc	3 <i>05</i>	- Stimate	UTM Y:	4200	0370	·+/- 2	5.5	(feet)					Dis	solved (Oxygen:	57	. 3	(% sat)	
	Averag		m Width		21	(0, 0 2						- egment:	30	\circ	meters)		Specific	c Cond:	490	0.3	(µS/cm)
			Micl			S			(20)						meters	Wate	r Temp	erature:		0	.(°C)	
1			I				ī		727	Trans	sect Cr	oss-Se	ection		ı							
	Distance	1	Distance	2	Distance	3	0 Distance	4	Distance	5	Distance	6	Distance	7	0 Distance	8	Distance	9	1 Distance	0	1 Distance	1
Measurement	(m)	Depth (m)	I , ,	Depth (m)	Ι,,	Depth (m)		Depth (m)	(m)	Depth (m)		Depth (m)	l	Depth (m)	(m)	Depth (m)	()	Depth (m)	(m)	Depth (m)	(m)	Depth (m)
1	0.00	0.10	1.00	0,10	0.00	0.24	0.20	0.11	0.70	0.10	08,0	0110	0,50	10,10	0.40	0.10	0.00	0.28	6.00	0118	0,00	0113
2	1.60	0.56	3,10	0112	2.00	0.43	2.10	0.11	2.45	<0110	ત્રે. 3૦	6.23	2.40	0.20	2.40	0.12	2.05	0.30	1.20	6.37	2.02	0.49
3	3.20	6.92	5.20	0.13	4.00	0.37	4. ov	0.14	4,20	0.19	3.80	0.37	4.30	0.30	4.40	0.14	4.10	0.90	a.40	0,80	4.04	0.63
			7:30																			
5	6.40	0.73	9.40	0.00	8.00	0.24	7.80	0.18	7.70	<i>6.</i> 27	6-80	0.72	8.10	0.32	8.40	0.10	8,20	21.0	4.80	0.90	8,08	0.52
6	8.00	0.99	11.50	0.00	10.00	<0.10	9.70	0.18	9.45	0.47	8,30	0.68	10,00	0.36	10.40	0112	10.25	0,80	6,00	>1.0	10.10	0.20
7	9.60	0.96	13.60	0.30	12.00	0.14	11.60	0.15	11.20	0.90	9.80	0.62	11.90	0.34	12.40	<0.10	12.30	0,56	7.20	1.0	12.12	0.14
8	11,20	0.87	15.70	0.50	14.00	6.24	13,50	C.17	12.95	0.80	11.30	0.59	13.80	0.36	14.40	0.12	14.35	0.33	8.40	0.82	14.14	0.26
9	12.80	71,0	17.80	0.45	16.00	0.33	15.40	0.19	14.70	0.83	12.80	0.66	15,80	6, 23	16.40	0.12	16.40	0.19	9.60	0.60	16.16	0. JZ
10	14.40	0.90	19.90	0.44	18,00	0.35	17.30	0.17	16.45	0.80	14.30	0.69	17.60	0.3d	18,40	0.14	18.45	0.18	10.80	0.29	18.18	0.24
11	16.00	0,15	ત્રેત્રે.૦૦	0.11	20.00	0.11	19. do	0.11	18.20	0.17	15.80	0.22	19.50	0.11	20,40	0.11	do.50	0,29	12.00	0.11	2 0.20	0,10
12			ગ્રેસ.૨૦		20.10		19.30		1				19.90	0	20.80	0			12.50	0	21.00	0
Feature Type (riffle, run, or pool)	POO	/	r:ffle	/pos1	runtriff	le/poor	m rif	fle	. P00	/	POO	1	POL)/	rift	le	poo	1	2001	/	POO	/

lotes: Transects will be measured beginning on left descending barik and finishing on right descending bank

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0.m.

Signed: Nak Mient Date: 5/16/07

On C 5-24-07

AKS/25/07

WBID#_	1863	
Site#	3	

Data Sheet B - Site Characterization (must be completed for each site)

Date & Time: 5/16	0/07 9:15		S	Site Location Description (e.g., road crossing):									
	ctors): N.Zk.M., Je.	rrod R.	0.	Jungton of confluence with Bin Dry Fork									
Current Weather Cond	litions: Clear		F	Permit Number: MO 0125211, MO 0126 130, MO 019121									
Weather Conditions for			1 -	12 - 130 MO 019121									
Drought Conditions?:	No drought [4]; Phase I	□; Phase II	 I □; Pha	ase III □; Phase	IV □: Unknown □								
Locations:				,									
	ES (UNIVERSAL TRANSVER	SE MERCAT	OR PROJ	ECTION, IN METE	RS)								
Site GPS Coordinat					198505	nancez y exercises							
	FION METHOD (Indicate the m		o determin	e the locational dat	a.)								
	lobal Positioning System (GPS)			Interpo	plation							
Static Mode	atia\		×		phic Map or DRG								
Dynamic Mode (Kinem Precise Positioning Se					hotograph or DOQQ								
	rvice				Imagery								
Signal Averaging	D			Interpol	ation Other								
Real Time Differential													
HORIZONTAL ACCUE			11	l l									
FOM	GPS Data Quality				Interpolation	Data Quality							
EPE	±Meter ±_ <u> α/. α</u> Feet or ±			Source	00,000 Other								
PDOP	T_MINA_FEET OF T_	Met	ers		±Feet or	±Meters							
1 001													
otos:													
Photo ID# (WBID_Site#_##)	Photo Purpose and I (upstream, downstream,			Photo ID# (WBID_Site# ##)									
1863_3_707 Trac	les (vehicle) in Sti				-3-741 Transect 9								
863-3-708 Dwa.	frm view from T5	year !				ansart 9							
	m view from T5			100-10-112	3.712 Dionstrum from Transact 9								
"	sect 9												
es Observed*: (L	ses actually observe	d at time	of sur	vey.)									
☐ Swimming	☐ Skin diving		SCUBA	diving	☐ Tubing	☐ Water skiing							
☐ Wind surfing	☐ Kayaking		Boating		☐ Wading	☐ Rafting							
☐ Hunting	☐ Trapping		Fishing		None of the above	☐ Other:							
Describe: (Include nur	ber of individuals recreat	ing, photo-c	document	tation of evidenc	e of recreational uses, etc.	Use Data Sheet D- Recreational							
Use interview when co	nducting interviews.)	perty	oune	stated	that he and	his family have							
vsce ive sorr	for swimming	and	there	was a s	pot over his here	Use Data Sheet D- Recreational his family have d > Transact ?							
- Chris & Mary	Threadgill												
rounding Condi	tions*: (Mark all that pro	mote or imne	de recreati	ional uses. Attach	photos of evidence or unusual	items of interest \							
rounding Conditions*: (Mark all that promote or impediately City/county parks ☐ Playgrounds ☐ MDC				ation lands	Urban areas	☐ Campgrounds							
☐ Boating accesses	☐ State parks	☐ Natio			☐ Nature trails	☐ Stairs/walkway							
☐ No trespass sign	☐ Fence	☐ Steep											
		sicep	, stopes	· , ,	None of the above	Other:							
Comments: Section	of stron visite	a was Dry Forh	with	n private	property and	not accessible							

WBID#	1863	
Site#	3	

February 16, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (must be completed for each site)

Indications of H	luman Use*: (a	ttach photo	os)									
Roads	☐ Rope swings	Foot pat	ths/prints	□ Doc	k/platform	□ Liv	estock W	Vatering	□RV	/ ATV	Tracks	
☐ Camping Site	☐ Camping Sites			□ NPI	DES Discharge	☐ Fis	hing Tac	ckle				
Comments:												
Stream Morpho	logy:											
Upstream View	w's Physical Des	criptions:	Is there an	y wate	r present at th	is view	? ∅ Y	Yes □] No			
			If so, is the	ere an	obvious curre	nt?	⊠ Y	es □	No			
	he following cha											
Channel Feature	Transect (#		ence from cess (m)	Wie	lth (m)	Length (1	m)	Median D	epth (m)	. Depth (m)		
RIFFLE			(11)		0							
RUN				40)							
POOL				40	11.6							
				/	Mu-					ı		
Downstream V	View's Physical I	Description	s: Is there	any w	ater present a	t this v	iew? □	Yes	□ No	•		
				there a	n obvious cur	rent?		l Yes	□ No			
	he following cha			()	T 11 /	,						
Channel Feature RIFFLE	Distance from	n access (m)	Width ((m)	Length (n	n)	Median		in Depth (m)		Depth (m)	
RUN												
POOL									450000000000000000000000000000000000000			
Substrate*: (Th	ese values should	l add up to 1	100%.)									
15 % Co		% Gravel		6 Sand	0	% Silt	10	% Mud/	Clay	0	% Bedro	
Aquatic Vegeta	tion*: (Note amo	ount of vege	etation or a	loal or	owth at the ac	ceccme	nt cite	1				
							iii siic.))				
approximen	tely 20 % of	& substra	to wit	h al	gal growt	h						
Water Characte												
ODOR:		☑ Sewage	e 🗆 Mı	usky	☐ Chemical		None	☐ Othe	er:			
COLOR:		☑ Clear	☐ Gr	reen	☐ Gray		Milky	☐ Othe	er:			
BOTTOM DEPO	OSIT:	☐ Sludge	□ So	olids	☐ Fine sedimen	nts 🔯	None	☐ Othe	er:	:		
WATER SURFA	CE DEPOSITION:	□ Oil	□ Sc	um l	☐ Foam	Ø	None	☐ Other:		:		
Comments: Plea	ase attach any add	litional com	ments to t	his for	n							
	iso utiden uny ude	intional com	inicitis to ti	1113 1011								
*This information is	not to be used sole	ely for remov	val of a recr	eational	use designation	on but ra	ther is t	o provid	e a mor	e		
comprehensive unde decision on the recre	erstanding of water eation use analysis	conditions. but may poir	Consequent of to conditi	tiy, this	information is need further a	not inte	ended to or that a	directly	intluen other us	ce a		
Please verify that											nloto	
Surveyor's Signati	/ /	0 0	cions, enc	encu a				11		is coll	ibiete.	
					Date of							
Organization: ME	2C Water #	Resource	52	Position	: Water (Quali	ty Sc	ier bis	<u>st</u>			
			10 C	+	24-00		24	-1-1	41			

MEC Recreational Use Attainability Analysis Field Survey Sheet

	Waterbody ID: 1863 Site #: + 3												Dissolved Oxygen Date: 5-16-07 Time: 9:15										
	Waterl	Waterbody ID: 1863 Site #:												Date:	5-1	<u>0-0</u>	7	Time:	9:19	<u>></u>			
		ted Cha				_(m) (he	` -	• '	w bank	width a	nd wate	er)				Dissolved Oxygen: 7.13 (mg/L)							
		UTM X:	0618	3496	•	UTM Y:	L [G	8505	+/- ~	1.2	(feet)					Dissolved Oxygen: 74,6 (% sat)							
	Horizontal Accuracy Estimate (GPS Data Quality): +/- 21.2 (feet) Average Stream Width: 14.5 (meters) Length of Survey Segment: 300 (meters)															Specific Cond: <u>5/5. Ο</u> (μS/cm)							
	Field Staff: Nick Muenks Jevrad Roberts (20x average stream width) Water Temperature: 17.3 (°C)																						
		Transect Cross-Section												25000	35.435					1000			
	01		02		Distance	3	04		Distance	5	06		07		1	8	09		10		11		
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)		Depth (m)	Distance (m)	Depth (m)	(m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
1	0.00	0,10	3.40	0,10	0,5°C	0.11	0.00	0.12	0,00	0.11	070	0110	0.00	0.18	3,80	0.11	0,00	0.10	0110	6.11	0.20	0,11	
2	1.70	40,10	4.40	40.10	1.98	40,10	1.00	0,52	1.02	0,43	1,63	0.18	1.05	0.31	4.30	0.15	1.00	0.26	a.a5	6,90	1.68	0.26	
3	3.40	40,10	5.40	0.10	3.46	40,10	2.00	0.70	2.04	0.60	2.56	0.33	2.10	0,26	4,80	0.22	2,00	0.49	4.40	0.65	3.16	6.32	
4	5.10	0110	6.40	40,10	4.94	40.10	3.00	>1.0	3.06	0.66	3.49	0.60	3.15	0.26	5.30	0,30	3.00	0.70	6.55	0.66	4.64	6.44	
5	6.80	0.12	7.40	0.18	6,42	0113	4.00	>1.0	4.08	0.58	4.42	0,58	4,20	0.30	5.80	0.41	4.00	190	8.70	0.35	6.12	0.31	
6	8.50	0.16	8.40	0.19	7.90	0,12	5,00	0.93	5.10	0.55	5.35	0.50	5,25	0.31	6.30	0.50	5,00	>1,0	10.85	0.30	7.60	مهن	
7	10,20	016	9.40	0.25	9.38	0.15	6.00	0.70	6.12	0.49	6.28	0.43	6.30	0.31	6.80	0.57	6.00	>1.0	13.00	0.17	9.08	0.24	
8	11.90	0.11	10,40	0.23	10.86	0117	7.00	0.50	7.14	0.40	7.21	0.33	7, 35	0.25	7.30	0.50	7.00	71.0	15:15	K0.10	10.56	0.13	
9	13.60	0110	11.40	0,22	12.34	0,18	8,00	0.32	8.16	0.31	8,14	0.36	४,५०	0.20	\$ 7.80	0.38	8,00	71.0	17,30	40,10	12.04	40.10	
10	15.30	40.10	12.40	0.18	13.82	0,18	9.00	06,0	9.18	0.20	9,07	0116	9.45	0,13	8.30	0.30	9.00	>1.0	19.45	0.20	13.52	40,10	
11	17.00	0.10	13.40	0.11	15.30	0110	10.00	6.10	10.20	0.11	10.00	0.10	10,50	Dill	8.80	0,17	10,00	>1.0	21.60	0.11	15.00	0110	
	20.70		13.80		15.60	0	10.70	0	11.40	0	10.90		13.70	0	9.00	0			22.10	0	15.60	O	
eature Type (riffle, run, or pool)	20.70 0 13.80 0 15.60 0 10.70 0 11.40 0										90 run 320 20 rul					50 1 60							

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0.m.

Signed: <u>Nich Muent</u> Date: <u>5/16/07</u>

Buc 5-24-07 MK 5/25/07



Site# 1 Photo ID# 1863-1-684, Downstream T1



Site# 1 Photo ID# 1863-1-686, Upstream T1



Site# 1 Photo ID# 1863-1-685, Downstream T1



Site# 1 Photo ID# 1863-1-687, Upstream T11

WBID# 1863



Site# 2 Photo ID# 1863-2-688, Crossing w/ graffiti



Site# 2 Photo ID# 1863-2-689, Footpath



Site# 2 Photo ID# 1863-2-690, Tire tracks



Site# 2 Photo ID# 1863-2-691, Downstream



Site# 2 Photo ID# 1863-2-692, Upstream



Site# 2 Photo ID# 1863-2-694, Rafts and tubes



Site# 2 Photo ID# 1863-2-693, Upstream



Site# 2 Photo ID# 1863-2-695, Downstream



Site# 2 Photo ID# 1863-2-700, Footprints



Site# 2 Photo ID# 1863-2-702, Shirt and aluminum



Site# 2 Photo ID# 1863-2-701, Shirt and aluminum can



Site# 2 Photo ID# 1863-2-705, Footprints



Site# 3 Photo ID# 1863-3-707, Rafts and tubes



Site# 3 Photo ID# 1863-3-708, Downstream



Site# 3 Photo ID# 1863-3-709, Upstream



Site# 3 Photo ID# 1863-3-711, Transect 9



Site# 3 Photo ID# 1863-3-710, Transect 9



Site# 3 Photo ID# 1863-3-712, Downstream